le 4160-90-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Agency for Healthcare Research and Quality

Agency Information Collection Activities: Proposed Collection; Comment Request

AGENCY: Agency for Healthcare Research and Quality, HHS.

ACTION: Notice.

SUMMARY: This notice announces the intention of the Agency for Healthcare Research and Quality (AHRQ) to request that the Office of Management and Budget (OMB) approve the proposed information collection project "The AHRQ Safety Program for Methicillin-Resistant *Staphylococcus aureus* (MRSA) Prevention."

DATES: Comments on this notice must be received by [INSERT DATE 60 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: Written comments should be submitted to: Doris Lefkowitz, Reports Clearance Officer, AHRQ, by email at doris.lefkowitz@AHRQ.hhs.gov

Copies of the proposed collection plans, data collection instruments, and specific details on the estimated burden can be obtained from the AHRQ Reports Clearance Officer.

FOR FURTHER INFORMATION CONTACT: Doris Lefkowitz, AHRQ Reports Clearance Officer, (301) 427-1477, or by email at doris.lefkowitz@AHRQ.hhs.gov.

SUPPLEMENTARY INFORMATION:

Proposed Project

The AHRQ Safety Program for Methicillin-Resistant Staphylococcus aureus (MRSA) Prevention

As part of the HHS HAI National Action Plan (NAP), AHRQ has supported the implementation and adoption of the Comprehensive Unit-based Safety Program (CUSP) to reduce Central-Line Associated Bloodstream Infections (CLABSI) and Catheter-Associated Urinary Tract Infections (CAUTI), and subsequently applied CUSP to other clinical challenges, including reducing surgical site infections and improving care for mechanically ventilated patients. As part of the National Action Plan for Combating Antibiotic-Resistant Bacteria (CARB NAP), the HHS HAI National Action Plan, and Healthy People 2030 goals, AHRQ will now apply the principles and concepts that have been learned from these HAI reduction efforts to the prevention of MRSA invasive infections.

Healthcare-associated infections, or HAIs, are a highly significant cause of illness and death for patients in the U.S. At any given time, HAIs affect one out of every 31 hospital inpatients. More than a million of these infections occur across our health care system every year. This leads to significant patient harm and loss of life, and costs billions of dollars each year in medical and non-medical costs. In addition, the 3 million Americans currently residing in U.S. nursing homes experience a staggering 2-3 million HAIs each year.

Particular concern has arisen related to the persistent prevalence of methicillin-resistant Staphylococcus aureus (MRSA). This bacterium affects both communities and healthcare facilities, but the majority of morbidity and mortality occurs in critically and chronically ill patients. While MRSA was rare in the US through the 1970s, its prevalence in US health care facilities began rising in the 1980s and had continued to do so. In 2000, MRSA was responsible

for 133,510 hospitalizations in children and adults. This number more than doubled by 2005, with 278,203 hospitalizations along with 56,248 septic events and 6,639 deaths being attributed to MRSA. MRSA has become a major form of hospital associated Staphylococcus aureus infection.

For various patient safety initiatives, AHRQ has promoted the implementation and adoption of the Comprehensive Unit-based Safety Program (CUSP) approach which combines clinical and cultural (i.e., technical and adaptive) intervention components to facilitate the implementation of technical bundles to improve patient safety. For MRSA prevention, it is likely that a combination of technical approaches is indicated, including decolonization along with classic infection control practices such as hand hygiene, environmental cleaning, general HAI prevention, and contact precautions/isolation. Implementation of these technical approaches would benefit greatly from the cultural and behavioral interventions incorporated in CUSP. AHRQ expects that this approach, which includes a focus on teamwork, communication, and patient engagement, will enhance the effectiveness of interventions to reduce MRSA infection that will be implemented and evaluated as part of this project.

This project will assist hospital units and long-term care facilities in adopting and implementing technical approaches to reduce MRSA infections. It will be implemented in four cohorts:

- at least 400 ICUs
- at least 400 non-ICUs
- at least 300 hospital surgical services
- at least 300 long-term care facilities.

The goals of this project are to 1) develop and implement a program to prevent MRSA invasive infection in intensive care units (ICUs), non-ICUs, inpatient surgery, and long-term care facilities, 2) assess the adoption of CUSP for MRSA Prevention, and 3) evaluate the effectiveness of the intervention in the participating units. AHRQ is requesting a 3-year clearance to perform the data collection activities needed to assess the adoption of the program and evaluate its effectiveness in the participating units and facilities.

The project is being conducted by AHRQ through its contractor, Johns Hopkins University (JHU) and JHU's subcontractor, NORC at the University of Chicago. The project is being undertaken pursuant to AHRQ's mission to enhance the quality, appropriateness, and effectiveness of health services, and access to such services, through the establishment of a broad base of scientific research and through the promotion of improvements in clinical and health systems practices, including the prevention of diseases and other health conditions (42 U.S.C. 299).

Method of Collection

The evaluation will utilize a pre-post design, using quarterly data collected over a 12-month baseline period and an 18-month implementation period for a total of 4 baseline data points and 6 implementation data points. In addition to a pre-post-intervention analysis, we plan to make use of the multiple baseline observations to conduct an interrupted time-series analysis for each of the four healthcare settings (ICU, non-ICU, surgical services, and long-term care).

The primary data collection includes the following:

1) Unit or Facility-level clinical outcome change data: During each quarter of the program for ICU, non-ICU and surgical settings, each participating unit will be asked to submit clinical measures related to MRSA prevention through a secure online portal; long-term care settings will submit this information on a monthly basis. Units from all settings will also provide

retrospective data for the 12 months prior to the start of the intervention period. These data will be used to evaluate the effectiveness of the AHRQ Safety Program for MRSA Prevention program.

- Survey of Patient Safety Culture: The NORC/JHU team will administer AHRQ Surveys of Patient Safety Culture to all eligible AHRQ Safety Program for MRSA Prevention staff at the participating units or facilities at the beginning and end of the intervention. We will administer the Hospital Survey of Patient Safety Culture (HSOPS) in the ICU, non-ICU, and surgical cohorts, and the Nursing Home Survey on Patient Safety Culture (NHSOPS) in the long term care cohort. These surveys ask questions about patient safety issues, medical errors, and event reporting in the respective setting. NORC/JHU will request that all staff on the unit or facility that is implementing the AHRQ Safety Program for MRSA Prevention complete the survey. As unit and facility size vary, we estimate the average number of respondents to be 25 for each unit.
- 3) Gap Analysis: The NORC/JHU team will administer the Gap Analysis during the first month of the intervention to an Infection Preventionist and one of the unit's team leaders (most likely a nurse). Information on current practices in MRSA prevention on the unit will be collected.
- 4) Implementation Assessments- Team Checkup Tool: The implementation assessments will be conducted to monitor the program's progress and determine what the participating sites have learned through participating in the program. The Team Checkup Tool will be requested monthly, and we anticipate participation from approximately 1 staff (most commonly a nurse) per unit. The program will use the Team Checkup Tool to monitor key actions of staff members. The Tool asks about use of safety guidelines, tools, and resources throughout three different phases: Assessment (1), Planning, Training, and Implementation (2), and Sustainment (3).

This data collection effort will be part of a comprehensive evaluation strategy to assess the

adoption of the Comprehensive Unit-Based Safety Program (CUSP) for MRSA Prevention in

ICUs, non-ICUs, surgical services, and long-term care settings; and measure the effectiveness of the interventions in the participating facilities or units. The evaluation has four main goals:

- 1. Program participation: Assess the ability of sites to successfully encourage full participation of unit/facility staff in educational activities.
- Implementation and adoption: Assess the implementation and adoption of CUSP for MRSA prevention.
- 3. Program effectiveness: Measure the effectiveness of the CUSP for MRSA prevention bundle.
- 4. Causal pathways: Describe the characteristics of teams that are associated with successful implementation and improvement outcomes.

Estimated Annual Respondent Burden

Exhibit 1 shows the total estimated annualized burden hours for the data collection efforts. All data collection activities are expected to occur within the three-year clearance period. The total estimated annualized burden is 13,151 hours.

Exhibit 1 Estimated annualized burden hours

Form Name	Number of	Number of	Hours per response	Total Burden hours
	Respondents +	responses		
		per		
		respondent		

Survey of Patient Safety (Culture			
HSOPS	9,167	2	0.25	4,584
(25 respondents per unit,				
pre- and post-intervention				
for ICU (400), non-ICU				
(400), and surgical (300)				
cohorts, 1,100 units total)				
NHSOPS	2,500	2	0.25	1,250
(25 respondents per				
facility, one response per				
pre- and post-intervention				
for LTC cohort, 300				
facilities total)				
Infrastructure Assessmen	t			
Gap Analysis	467	2	1	934
(1 assessment per unit or				
facility, pre and post-				
intervention for all four				
cohorts, 1,400 sites total)				
Implementation Assessme	ents:			
Team Checkup Tool	367	18	0.17	1,123

(1 checklist conducted monthly during the 18 months of intervention for ICU, non-ICU, and Surgical cohorts, 1,100 units total)				
Team Checkup Tool (1 checklist conducted monthly per facility during the 18 month intervention period for LTC cohort, 300 facilities total)	100	18	0.17	306
Electronic Health Record Initial datapull-	(EHR) Extracts	1	9	2,403
(once at baseline for ICU and non-ICU cohorts, 800 units total)				
Initial datapull- (once at baseline for Surgical cohort, 300 settings total)	100	1	0.5	50
Initial datapull-	100	1	5	500

(once at baseline for LTC cohort, 300 facilities total)				
Quarterly data-	367	6	0.5	1,101
(quarterly during 18				
months of intervention for				
ICU, non-ICU, and				
Surgical cohorts, 1,100				
units total)				
Monthly data-	100	18	0.5	900
(monthly per facility				
during 18 months of				
intervention for LTC				
cohort, 300 facilities total)				
Total	13,535			13,151

+ The number of respondents per data collection effort is calculated by multiplying the number of respondents per unit by the total number of units. The result is divided by three to capture an annualized number.

Exhibit 2 shows the estimated annualized cost burden based on the respondents' time to complete the data collection activities. The total annualized cost burden is estimated to be \$596,597.83.

Exhibit 2 Estimated annualized cost burden

Form Name	Number of	Total Burden	Average Hourly	Total Cost
	Respondents	Hours	Wage Rate	Burden
Survey of Patient Safet	y Culture			
HSOPS (Attachment	9,167	4,584	\$51.53*	\$236,187.76
N)	3,107	1,501		425 0,10 7.70
(25 respondents per				
unit, pre- and post-				
intervention for ICU				
(400), non-ICU (400),				
and surgical (300)				
cohorts, 1,100 units				
total)				
NHSOPS (Attachment	2,500	1,250	\$51.53*	\$64,412.50
O)				
(25 respondents per				
facility, one response				
per pre- and post-				
intervention for LTC				
cohort, 300 facilities				
total)				
Infrastructure Assessm	 nent			

(Attachments B-D) (I assessment per unit or facility, pre and post-intervention for all four cohorts, 1,400 sites total) Implementation Assessments: Team Checkup Tool 367 1,123 \$51.53* \$57,868.19 (Attachments H and I) (I checklist conducted monthly during 3 months of ramp-up and 15 months of intervention periods for intervention periods fo	ap Analysis	467	934	\$51.53*	\$48,129.02
or facility, pre and post-intervention for all four cohorts, 1,400 sites total) Implementation Assessments: Team Checkup Tool 367 1,123 \$51.53* \$57,868.19 (Attachments H and I) (1 checklist conducted monthly during 3 months of ramp-up and 15 months of	Attachments B-D)				
or facility, pre and post-intervention for all four cohorts, 1,400 sites total) Implementation Assessments: Team Checkup Tool 367 1,123 \$51.53* \$57,868.19 (Attachments H and I) (1 checklist conducted monthly during 3 months of ramp-up and 15 months of	l assessment ner unit				
post-intervention for all four cohorts, 1,400 sites total) Implementation Assessments: Team Checkup Tool 367 1,123 \$51.53* \$57,868.19 (Attachments H and I) (I checklist conducted monthly during 3 months of ramp-up and 15 months of					
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Implementation Assessments: Team Checkup Tool 367 1,123 \$51.53* \$57,868.19 (Attachments H and I) (I checklist conducted monthly during 3 months of ramp-up and 15 months of					
Implementation Assessments: Team Checkup Tool 367 1,123 \$51.53* \$57,868.19 (Attachments H and I) (I checklist conducted monthly during 3 months of ramp-up and 15 months of					
Team Checkup Tool 367 1,123 \$51.53* \$57,868.19 (Attachments H and I) (I checklist conducted monthly during 3 months of ramp-up and 15 months of	tes total)				
(Attachments H and I) (1 checklist conducted monthly during 3 months of ramp-up and 15 months of	nplementation Assessi	ments:			
(Attachments H and I) (1 checklist conducted monthly during 3 months of ramp-up and 15 months of	eam Checkup Tool	367	1,123	\$51.53*	\$57,868.19
(1 checklist conducted monthly during 3 months of ramp-up and 15 months of					. ,
monthly during 3 months of ramp-up and 15 months of					
months of ramp-up and 15 months of	! checklist conducted				
15 months of	onthly during 3				
	onths of ramp-up and				
intervention periods for	5 months of				
intervention perious jor	ntervention periods for				
ICU, non-ICU, and	CU, non-ICU, and				
Surgical cohorts, 1,100	urgical cohorts, 1,100				
units total)	nits total)				
Team Checkup Tool 100 306 \$51.53* \$15,768.18	eam Checkun Tool	100	306	\$51.53*	\$15.768.18
(Attachment J)					<i>410,700.</i> 10
(Attuoriment 3)	reachinement 3)				
(1 checklist conducted	checklist conducted				
monthly per facility	onthly per facility				
during 18 months of	uring 18 months of				

EHR) Extra		\$35.17^	
		\$35.17^	
		\$35.17^	
		\$35 17^	
7	2,403	\$35.17^	
		Ψ33.17	\$84,513.51
0	50	\$35.17^	\$1,758.50
0	500	\$35.17^	\$17,585.00
7	1.101	\$35.17^	\$38,722.17
	-,	, , ,	
	7	500	500 \$35.17^

(quarterly during 18 months of intervention for ICU, non-ICU, and Surgical cohorts, 1,100 units total)			025.170	001.652.00
Monthly data	100	900	\$35.17^	\$31,653.00
(Attachment R)-				
(monthly per facility				
during 18 months of				
intervention for LTC				
cohort, 100 facilities				
total)				
Total	13,535	13,151		\$596,597.83

^{*}This is an average of the average hourly wage rate for physician, nurse, nurse practitioner, physician's assistant, and nurse's aide from the May 2019 National Occupational Employment and Wage Estimates, United States, U.S. Bureau of Labor Statistics (https://www.bls.gov/oes/current/oes_nat.htm#00-0000).

^This is an average of the average hourly wage rate for nurse and IT specialist from the May 2019 National Occupational Employment and Wage Estimates, United States, U.S. Bureau of Labor Statistics (https://www.bls.gov/oes/current/oes_nat.htm#00-0000).

Request for Comments

In accordance with the Paperwork Reduction Act, 44 U.S.C. 3501-3520, comments on AHRQ's

information collection are requested with regard to any of the following: (a) whether the

proposed collection of information is necessary for the proper performance of AHRQ's health

care research and health care information dissemination functions, including whether the

information will have practical utility; (b) the accuracy of AHRQ's estimate of burden (including

hours and costs) of the proposed collection(s) of information; (c) ways to enhance the quality,

utility and clarity of the information to be collected; and (d) ways to minimize the burden of the

collection of information upon the respondents, including the use of automated collection

techniques or other forms of information technology.

Comments submitted in response to this notice will be summarized and included in the Agency's

subsequent request for OMB approval of the proposed information collection. All comments

will become a matter of public record.

Dated: April 27, 2021.

Marquita Cullom,

Associate Director.

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